

Appl. No. 10/702,239
Amdt. Dated 6 February 2006
Reply to Office action of 13 December 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-29. (canceled)

30. (original) A toroidal winding assembly comprising: a winding core; and at least one electrical conductor wound around said winding core to form a longitudinal assembly; said winding core comprising a substantially non-ferromagnetic core material; and said longitudinal assembly being bent to form a generally toroidal assembly and having a first assembly end bonded to a second assembly end.

31. (withdrawn) The toroidal winding assembly of claim 30 wherein said core material comprises a core polymer.

32. (withdrawn) The toroidal winding assembly of claim 31 wherein said core polymer comprises 100 parts of diglycidyl ether of bisphenol A and 10 parts of diethylene triamine.

33. (withdrawn) The toroidal winding assembly of claim 31 wherein said core polymer comprises a rubber.

34. (original) The toroidal winding assembly of claim 30 further comprising a motion constraining material coating said longitudinal assembly.

35. (original) The toroidal winding assembly of claim 34 wherein said motion constraining material comprises a coating polymer.

36. (original) The toroidal winding assembly of claim 35 wherein said coating polymer comprises gelatin and ammonium dichromate.

37. (original) The toroidal winding assembly of claim 35 wherein said coating polymer comprises polychloroprene.

38. (original) The toroidal winding assembly of claim 35 wherein said coating polymer comprises styrene-butadiene-styrene co-polymer.

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39. (original) The toroidal winding assembly of claim 30 wherein: said longitudinal assembly further comprises a winding support layer having a plurality of winding grooves, said winding support layer being disposed on said winding core; and said at least one conductor is wound in said winding grooves.

40. (withdrawn) The toroidal winding assembly of claim 30 wherein said longitudinal assembly further comprises an outer shell surrounding said winding core and said at least one conductor.

41. (withdrawn) The toroidal winding assembly of claim 40 wherein said outer shell comprises an outer shell material adapted to contract upon exposure to a contraction stimulus.

42. (withdrawn) The toroidal winding assembly of claim 40 wherein said longitudinal assembly further comprises a filler material filling an annular gap between said winding core and said outer shell.

43. (withdrawn) The toroidal winding assembly of claim 40 wherein said filler material comprises a filler polymer.

44. (withdrawn) The toroidal winding assembly of claim 43 wherein said filler polymer comprises solvent cast polychloroprene.

45-46. (canceled)